Geographic Response Strategy GRS

Overview

Oil Spill Response

#1-Stop and contain the oil at the source.



Oil Spill Response

#2 -Collect the oil on the water.



Oil Spill Response

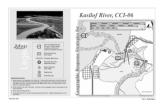
#3 -Protect sensitive areas from impacts. Geographic Response Strategies





What is a GRS ?

 GRS are response tools that maybe utilized by an Incident Command or Responsible Party in the event of an oil spill.



What is a GRS ?

 Shore-side and near shore response strategies for the protection of <u>pre-</u> <u>selected sensitive areas.</u>



What is a GRS ?

 A consensus product of a planning effort involving trustee agencies, response agencies, spill responders, plan holders and the public. The workgroup.



What is a GRS ?

 Public document that is Part G of the State/Federal Subarea Plan.

Work Group Membership

Oversight Agencies
USCG EPA
ADEC

Natural Resource Agencies
ADFG ADNR
DOI FWS NPS
NOAA NMFS USFS
MMS

Response Organizations Alaska Chadux

laska Chadux CISPRI SERVS SeaPro

C-plan Holders
Local Governments
Tribal Organizations
Citizen Advisory Councils

Guiding Principles

Primary

- Responder-oriented strategies and techniques to protect sensitive areas.
- Strategies should be flexible and modifiable to fit the prevailing conditions.
- No unnecessary duplication of information in other plans.

Guiding Principles

Primary

- Identifies resources at risk and set priorities for their protection.
- The documents specify required response resource, logistical information, and field instructions for deployment.
- Easy to use, test and update.
- Content more important than form.

Guiding Principles

Secondary

- Increase public awareness of response plans prior to a spill
- Low maintenance cost and time
- Low unit cost
- Incident Command System friendly

Document Organization

Part 1 Introduction

Part 2 Geographic Response Strategies

Part 3 References

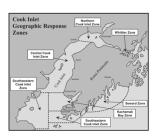
Format

- 11 x 17 for responders
- Color Maps and Photos
- Expandable at later date
- One page (both sides) per site
- Simple presentation of information

Part 1 Introduction

- Purpose and Scope
- How to Use This Document
- STAR Manual- "Spill Tactics for Alaska Responders"
- Who to Contact for Input
- How the Document Was Developed
- Zone Map
- Site Selection Matrix

Zone Map



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Part 2 Geographic Response Strategies

Index Map to Sites

Legend

Geographic Response Strategies

Site Map, Picture, Notes

Table - Location, Description, Implementation, Response Resources, Staging, Access, Resources Protected, Special Considerations

Index Map



Geographic Response Strategy





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Geographic Response Strategy

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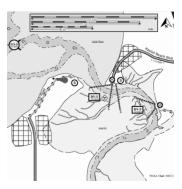




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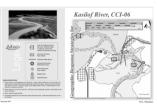
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Cook Inlet Geographic Response Strategies

ID	Location and Description	Response Strategy	Implementation
CCI-06-01	Kasilof River Nearshore waters in the general area of: Lat. 60° 23.8 N Lon. 151° 20.3 W	* Maximize on-water recovery in the offshore & nearshore environment / outside the mudflats.	Deploy nearshore strike teams upwind and up current of the river mouth. Use aerial surveillance to locate incoming oil.
CCI-06-02	Kasilof River Lat. 60' 23.13 N Lon. 151' 17.87 W 2.5 mm. north of Cape Kasilof on east side of Cook Inlet River Channel entrance marked by lighted buoy (May. November), not navigable at low tide. strong currents. narrow and winding. boats a 6' can navigate in river from entrance to 6 mit upstream.	 Divert spilled product to designated collection sites "Recover spilled product at designated collection sites. Seasonal Restriction River iced-in/not navigable from approximately November to April. 	Place 1,000 ft. of diversion boom and collect product with an on-shore and/or marine collection unit.

Geographic Response Strategy

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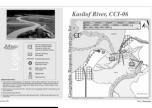
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ntation	Response Resources	Staging Area	Site
shore strike d and up river aerial to locate	Multiple nearshore free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Kasilof Harbor or Kenai Harbor	Via marine See NOA/ 16661-1, 1 16662-2.
ft, of om and oct with an Vor marine it.	Equipment 5 en 200 ft river boom units 2 en protected water skimmer 600 ft. 2" discharge hose 2 en. on-shore storage unit 1 en. marine storage unit 1 en. marine storage unit 2 coop ft. line Support 3 en. vessel class #5/6 1 en. truck with trailer 1 en. shelter. 2 en. ATV trailers 2 en. ATV s	North shore: - Services - crane, boat launch, electric power, heavy equipment access - Security - none Support - shelter. South shore: - Private land off Cohe Loop - Service - none Security - none Support - shelter	FOSC His Properties should IN prior to op FOSC His Properties permit may to work in Contact Es Unit of the Command North sho Kalifornsk to Kasilof ends at bee

Geographic Response Strategy

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December 2001

<u>rea</u>	Site Access	Resources Protected (months)	Special Consideration
Kenai	Via marine waters. See NOAA Charts 16661-1, 16662-1 or 16662-2.	Same as CCI-06-02.	Strong tidal currents, shoal waters and rocks. Vessel master should have local knowledge.
coat launch, eavy s	FOSC Historic Properties Specialist should INSPECT site prior to operations. FOSC Historic Properties Title 16 contact Environmental Unit of the Unified Command for permit North shore: Kalforrski Beach Road, to Kasilof Beach Road	Tidal marshes (all year) Salmon migration and spawning (May - October) Intertidal almon spawning (July - September) Waterfowl and shore bird concentrations (May - September) Fishing (July - September)	Very difficult and unsafe to protect exposed tidal flats outside river mouth. Working on banks of the river should be no problem. Take care not to work or walk on oiled shoreline, to avoid driving oil into the soil. Access above intertidal area will have to be resolved with landowners before setting anchors or staging areas.

Section 3 References

Sensitive Areas
Land Ownership
Equipment/Tactics

Site Selection Process: Criteria for Site Selection



Environmental Sensitivity

Criteria for Site Selection



Risk of Oil Spill Impact

Criteria for Site Selection



Ability to Protect the Site

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Identify Candidates Sites:

Develop Site Selection Matrix (SSM)

Columns - Priority Criteria From Area Plan

Rows - Potential Sites

	Location	Priority	Latitude	Longitude	Marine Mammal	Fish	Subsis tence	Cultural Resourc es	Birds	Recrea tional Use	Commer cial Fishing	Land Mgt.	Coasta Habital
Cand	lidate Sites												
1	Cape Puget Rookery		59°56.60°N	148426.70W	0	н				SF			
2	Head of Puget Bay		60°01.40°N	148°30.00'W	0	P,S,I,H				SF			
3	Cape Junken Rookery		59°55.10°N	148°37.70W	0	н			S8n	SF			
4	Cape Fairfield Rookery		59°55.50°N	148°51.00W	SL,O	н			S8n<1,000	SF			
s	Widby Bay Spawning Stream		59°58.20°N	148957.00W	0	P,1,H			N				
6	Horsehead Bay Spawning Stream		59°57.90°N	149102.00W	0	P,CH,I,H							
7	Head of Day Harbor-East			149102.50W		н							
8	Head of Day Harbor-West			149103.90W		н							
9	Day Harbor NW Stream			149197.40W		н							

Key to Site Selection Matrix

Marine Mammals	Flsh	Birds	Coastal Habitat	Cultural Resources	Subsistence Use	Recreational Use	Commercial Fishing	Land Management
S = Steller Sea Lion rookeries and healouts	E = Bulachen spawning concentration	C = Waterfield & shurebird migratory, molting, and winter concentration	T = Sheltered tidal flat	I = FOSC Historic Properties Specialist should Inspect site prior to operations	I = High upe manne invertebrate area		H = Salmon hatchery or ocean pen	P = State park
O = Sea otter concentration >100 otters	R = Juverile fish rearing in kelp and reefs	M = Markled naurelet neachors feeding concentration	R = Sheltered rocky shore	M = FOSC Historic Properties Specialist should Monitor onsite operations			P = Shorebased fish processor	N = National park and preserve
W = Humpback whale summer, fall, winter concentration	S = More than 10,000 salmon spawners	K = Kittlitz murrelet (proposed endangered species) habitat	K = Kelp or celgram beds				N = Set-met fishery	L = National landmark
			I = High area of intertidal diversity					R = National wildife refuge
								W = Wild & scenic river
					Sour	te		
Primary sources: SE SCP, NOAA ESI maps, NMFS, ADFO, FWS, NPS data	Primary source: ADFG, FWS, NMFS data	Primary sources: SE SCP, NOAA BSI maps, FWS Seabird Colony Catalog, ADFO, FWS data	Primary sources: NOAA BSI maps, FWS, ADFG data	Primary sources: ADNR, USPS	Primary sources: ADFG, USFS data	Primary sources: ADNR, USPS, NPS data	Primary sources: ADFO data	Primary sources: ADNR, NPS, ADFG, FWS, USFS data

Index Map of Candidate Sites



Site Selection Process

Initial Selection by Workgroup

Public Input Process

Resource Maps, SSM posted to the website and opened to the public and workgroup for input/comments.

Outreach to organizations and resource agencies to confirm resource location.

Finalized Site Selection after Public Input

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Tactics Group

Gather Additional Information on Sites

- Maps, Charts
- Photos
- Sensitive Resources
- Local Knowledge

Tactics Group

Survey team visits each site when possible Larger tactics group reviews and edits tactics for each site





Draft GRS posted to the web page for WG review



http://www.dec.state.ak.us/spar/perp/grs/ci/cis/home.htm

Questions?

